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| IDS FORM INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Application Number | 10/588,818 |
| | | | | Filed | August 9, 2006 |
| | | | | First Named Inventor | Takahide NISHI |
| | | | | Group Art Unit | 1614 |
| | | | | Examiner Name | Alicia R. HUGHES |
| Sheet | 1 | of | 15 | Attorney Docket Number | 06439/HG |

U.S. PATENT DOCUMENTS

| Exam. Inits* | Cite No ¹ | Document Number | Kind Code ² | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion |
|--------------|----------------------|-----------------|------------------------|-------------------------------|-----------------------------|------------------|
| | | 7,199,150 | B2 | NISHI et al. | 04-03-2007 | |
| | | 6,964,976 | B2 | NISHI et al. | 11-15-2005 | |
| | | 2002/0091105 | A1 | MANDALA et al. | 09-11-2002 | |
| | | 2007/0149597 | A1 | NISHI et al. | 06-28-2007 | |
| | | 2007/0142335 | A1 | NISHI et al. | 06-21-2007 | |
| | | 2007/0105933 | A1 | NISHI et al. | 05-10-2007 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|-------------|----------------------|-------------------|------------------------------|------------------------|-------------------------------|-----------------------------|------------------|----------------|
| | | WO | 02/06268 | A1 | SANKYO COMPANY, LTD. | 01-24-2002 | | |
| | | WO | 02/076995 | A2 | NOVARTIS | 10-03-2002 | | |

| | |
|--------------------|-----------------|
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U.S. PATENT DOCUMENTS

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|-----------------------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 6,004,565 | A | CHIBA et al. | 12-21-1999 | |
| | | 6,667,025 | B2 | CHIBA et al. | 12-23-2003 | |
| | | 2004/0092603 | A1 | CHIBA et al. | 05-13-2004 | |
| | | 5,604,229 | | FUJITA et al. | 02-18-1997 | |
| | | 6,214,873 | B1 | ADACHI et al. | 04-10-2001 | |
| | | 2004/0058894 | A1 | DOHERTY et al. | 03-25-2004 | |
| | | 2004/0132784 | A1 | NISHI et al. | 07-08-2004 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits [*] | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------------------|-------------------------|-------------------|------------------------------|---------------------------|----------------------------------|--------------------------------|---------------------|----------------|
| | | WO | 96/06068 | A1 | YOSHITOMI PHARMACEUTICAL IND | 02-29-1996 | | |
| | | WO | 02/18395 | A1 | MERCK & CO., INC. | 03-07-2002 | | |
| | | JP | 11-80026 | A | YOSHITOMI PHARMACEUTICAL IND | 03-23-1999 | | * |

| | | | |
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*English-language abstract enclosed; also JP 11-80026 is a related family member of USP 6,004,565; USP 6,667,025 and US 2004/0092603

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| | | | | | | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|----------------------------------|--------------------------------|---------------------|----------------|
| | | EP | 1 002 792 | A1 | YOSHITOMI PHARMACEUTICAL IND | 05-24-2000 | | |
| | | JP | 2-256612 | A | TANABE SEIYAKU CO | 10-17-1990 | | * |
| | | EP | 0 297 782 | A1 | TANABE SEIYAKU CO | 01-04-1989 | | |
| | | JP | 9-124564 | A | NIKKO RIKA KK | 05-13-1997 | | |
| | | JP | 4-104796 | A | TAIHO YAKUHHN KOGYO KK | 04-07-1992 | | |
| | | EP | 0 492 497 | A2 | HOECHST AG | 07-01-1992 | | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

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|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 2002/0052349 | A1 | KRAUSS et al. | 05-02-2002 | |
| | | 2003/0216393 | A1 | BUSCHMANN et al. | 11-20-2003 | |
| | | 2003/0220390 | A1 | BUSCHMANN et al. | 11-27-2003 | |
| | | 2003/0236297 | A1 | NISHI et al. | 12-25-1003 | |
| | | 2004/0034063 | A1 | KO et al. | 02-19-2004 | |
| | | 2004/0082790 | A1 | DUNCIA et al. | 04-29-2004 | |
| | | 2004/0097508 | A1 | LUBISCH et al. | 05-20-2004 | |
| | | 3,726,948 | | BOTTS | 04-10-1973 | |
| | | 4,363,918 | | ALBERT et al. | 12-14-1982 | |
| | | 4,386,090 | | MOINET et al. | 05-31-1983 | |
| | | 4,536,601 | | TUKAMOTO et al | 08-20-1985 | |
| | | 4,613,596 | | MORONI | 09-23-1986 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|----------------------------------|--------------------------------|---------------------|----------------|
| | | EP | 0 125 315 | A1 | YOSHITOMI PHARMACEUTICAL IND | 11-21-1984 | | |
| | | EP | 0 167 459 | B1 | ROLLAND S.A. | 01-08-1986 | | |
| | | EP | 0 300 688 | A1 | FISONS PIC | 01-25-1989 | | |
| | | EP | 0 480 659 | B1 | MERCK & CO INC | 04-15-1992 | | |

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|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 4,634,689 | | WITKOWSKI et al. | 01-06-1987 | |
| | | 4,667,038 | | CLARK et al. | 05-19-1987 | |
| | | 4,716,155 | | KARANEWSKY et al. | 12-29-1987 | |
| | | 4,792,568 | | AUERBACH | 12-20-1988 | |
| | | 4,888,338 | | GODFROID et al. | 12-19-1989 | |
| | | 4,977,171 | | SUZUKI et al. | 12-11-1990 | |
| | | 5,002,966 | | SKIDMORE et al. | 03-26-1991 | |
| | | 5,037,853 | | BROOKS et al. | 08-06-1991 | |
| | | 5,037,958 | | HASHIMOTO et al. | 08-06-1991 | |
| | | 5,039,706 | | WILKERSON | 08-13-1991 | |
| | | 5,061,704 | | WIERZBICKI et al. | 10-29-1991 | |
| | | 5,068,247 | | FUJITA et al. | 11-26-1991 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|----------------------------------|--------------------------------|---------------------|----------------|
| | | EP | 0 520 336 | A2 | FUJIREBIO INC | 12-30-1992 | | |
| | | EP | 1 050 301 | A1 | YOSHITOMI PHARMACEUTICAL IND | 11-08-2000 | | |
| | | EP | 1 176 140 | B1 | MITSUBISHI PHARMA CORP | 01-30-2002 | | |

| | | | |
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|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 5,112,848 | A | BROOKS et al. | 05-12-1992 | |
| | | 5,130,487 | A | BUNDAI et al. | 07-14-1992 | |
| | | 5,135,947 | A | ROBERTSON et al. | 08-04-1992 | |
| | | 5,177,085 | A | NAEF | 01-05-1993 | |
| | | 5,219,884 | A | FUJITA et al. | 06-15-1993 | |
| | | 5,234,934 | A | BUNDAI et al. | 08-10-1993 | |
| | | 5,260,329 | A | MONGELLI et al. | 11-09-1993 | |
| | | 5,266,599 | A | AUBARD et al. | 11-30-1993 | |
| | | 5,276,190 | A | BOESTEN et al. | 01-04-1994 | |
| | | 5,288,751 | A | BROOKS et al. | 02-22-1994 | |
| | | 5,433,896 | A | KANG et al. | 07-18-1995 | |
| | | 5,470,878 | A | MICHNICK et al. | 11-28-1995 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|---|--------------------------------|---------------------|----------------|
| | | EP | 1 319 651 | A2 | MITSUBISHI PHARMA CORP. | 06-18-2003 | | |
| | | EP | 1 431 275 | A1 | KYORIN PHARMACEUTICAL | 06-23-2004 | | |
| | | EP | 1 431 284 | A1 | KYORIN PHARMACEUTICAL | 06-23-2004 | | |
| | | GB | 1 134 687 | | MEHTA et al. | 11-27-1968 | | |
| | | GB | 2 022 085 | A | PFIZER INC | 12-12-1979 | | |
| | | GB | 2 054 588 | A | SOCIETE INDUSTRIELLE DE PRODUITS DE SYNTHESE | 02-18-1981 | | |

| | | | |
|-----------------------|--|--------------------|--|
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|--------------|----------------------|-----------------|------------------------|-------------------------------|-----------------------------|------------------|
| | | 5,501,980 | A | KATERINOPOULOS et al. | 03-26-1996 | |
| | | 5,534,539 | A | MONGELLI et al. | 07-09-1996 | |
| | | 5,573,909 | A | SINGER et al. | 11-12-1996 | |
| | | 5,641,783 | A | KLEIN et al. | 06-24-1997 | |
| | | 5,686,479 | A | OKUMOTO et al. | 11-11-1997 | |
| | | 5,714,605 | A | VAZQUEZ et al. | 02-03-1998 | |
| | | 5,719,176 | A | FUJITA et al. | 02-17-1998 | |
| | | 5,732,218 | A | HAUGLAND et al. | 03-03-1998 | |
| | | 5,837,703 | A | KUMAR et al. | 11-17-1998 | |
| | | 5,891,892 | A | CHENG et al. | 04-06-1999 | |
| | | 5,922,770 | A | PESCHKE et al. | 07-13-1999 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|-------------|----------------------|-------------------|------------------------------|------------------------|-------------------------------------|-----------------------------|------------------|----------------|
| | | JP | 1-104087 | A | YOSHITOMI PHARMACEUT IND LTD et al. | 04-21-1989 | | * |
| | | JP | 3-246264 | A | YOSHITOMI PHARMACEUT IND LTD et al. | 11-01-1991 | | * |
| | | JP | 5-294907 | A | YOSHITOMI PHARMACEUT IND LTD et al. | 11-09-1993 | | * |
| | | JP | 6-067229 | A | FUJI PHOTO FILM CO LTD. | 03-11-1994 | | |
| | | JP | 6-345728 | A | NISSAN CHEM IND LTD | 12-20-1994 | | |

| | |
|--------------------|-----------------|
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|--------------|----------------------|-----------------|------------------------|-------------------------------|-----------------------------|------------------|
| | | 5,948,820 | A | FUJITA et al. | 09-07-1999 | |
| | | 5,952,316 | A | FUJITA et al. | 09-14-1999 | |
| | | 6,013,802 | A | HOYLAND et al. | 01-11-2000 | |
| | | 6,028,098 | A | GOODMAN et al. | 02-22-2000 | |
| | | 6,077,954 | A | COOK et al. | 06-20-2000 | |
| | | 6,121,329 | A | FUJII et al. | 09-19-2000 | |
| | | 6,187,821 | B1 | FUJITA et al. | 02-13-2001 | |
| | | 6,277,888 | B1 | SAKAI et al. | 08-21-2001 | |
| | | 6,284,915 | B2 | HIRASE et al. | 09-04-2001 | |
| | | 6,372,800 | B1 | FUJITA et al. | 04-16-2002 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|-------------|----------------------|-------------------|------------------------------|------------------------|---------------------------------|-----------------------------|------------------|----------------|
| | | JP | 7-002665 | A | IND TECHNOL RES INST | 01-06-1995 | | * |
| | | JP | 7-138230 | A | NIPPON SHOJI KK | 05-30-1995 | | * |
| | | JP | 10-81623 | A | YOSHITOMI PHARMACEUT IND LTD | 03-31-1998 | | * |
| | | JP | 11-310556 | A | YOSHITOMI PHARMACEUT IND LTD | 11-09-1999 | | |
| | | JP | 11-343300 | A | TAITO CO LTD ETAL | 12-14-1999 | | |

| | |
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|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 6,437,165 | B1 | MANDALA et al. | 08-20-2002 | |
| | | 6,444,686 | B1 | KO et al. | 09-03-2002 | |
| | | 6,455,528 | B1 | ADACHI et al. | 09-24-2002 | |
| | | 6,462,092 | B1 | SIKORSKI et al. | 10-08-2002 | |
| | | 6,468,998 | B1 | KUROITA et al. | 10-22-2002 | |
| | | 6,476,004 | B1 | SAKAI et al. | 11-05-2002 | |
| | | 6,476,075 | B1 | SIKORSKI et al. | 11-05-2002 | |
| | | 6,525,069 | B1 | KO et al. | 02-25-2003 | |
| | | 6,605,744 | B2 | ABEL et al. | 08-12-2003 | |
| | | 6,630,492 | B1 | BAUER et al. | 10-07-2003 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|----------------------------------|--------------------------------|---------------------|----------------|
| | | JP | 2002-053575 | A | SANKYO CO LTD | 02-19-2002 | | * |
| | | JP | 2002-316985 | A | SANKYO CO LTD | 10-31-2002 | | * |
| | | JP | 2003-267974 | A | SANKYO CO LTD | 09-25-2003 | | * |
| | | JP | 58-105946 | A | TANABE SEIYAKU CO | 06-24-1983 | | |
| | | JP | 59-44345 | A | TOYO JOZO CO LTD | 03-12-1984 | | |

| | |
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| Examiner Signature | Date Considered |
|-----------------------|--------------------|

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|--|----|----|----|------------------------|------------------|
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| | | | | Filed | August 9, 2006 |
| | | | | First Named Inventor | Takahide NISHI |
| | | | | Group Art Unit | 1614 |
| | | | | Examiner Name | Alicia R. HUGHES |
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U.S. PATENT DOCUMENTS

| Exam. Inits* | Cite No ¹ | Document Number | Kind Code ² | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion |
|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 6,630,493 | B1 | LUBISCH et al. | 10-07-2003 | |
| | | 6,638,950 | B2 | DUNCIA et al. | 10-28-2003 | |
| | | 6,649,611 | B2 | BLUMBERG et al. | 11-18-2003 | |
| | | 6,677,375 | B2 | SIKORSKI et al. | 01-13-2004 | |
| | | 6,683,099 | B2 | SIKORSKI et al. | 01-27-2004 | |
| | | 6,686,353 | B1 | SHIOTA et al. | 02-03-2004 | |
| | | 6,765,023 | B2 | SIKORSKI et al. | 07-20-2004 | |
| | | 6,476,004 | B1 | SAKAI et al. | 11-05-2002 | |
| | | 5,604,229 | A | FUJITA et al. | 02-18-1997 | |
| | | 6,605,744 | B2 | ABEL et al. | 08-12-2003 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|---|--------------------------------|---------------------|----------------|
| | | JP | 62-123126 | A | YOSHITOMI PHARMACEUT IND LTD | 06-04-1987 | | * |
| | | JP | 63-139179 | A | FUJI YAKUHHIN KOGYO KK | 06-10-1988 | | * |
| | | WO | 00/27798 | A1 | NOVARTIS | 05-18-2000 | | |
| | | WO | 00/33836 | A1 | ONTOGEN CORP | 06-15-2000 | | |
| | | WO | 00/53569 | a1 | HANGZHOU ZHONGMEI HUADONG PHARMACEUT | 09-14-2000 | | |

| | | | |
|-----------------------|--|--------------------|--|
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U.S. PATENT DOCUMENTS

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|-----------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
| | | 6,214,873 | B1 | ADACHI et al. | 04-10-2001 | |

FOREIGN PATENT DOCUMENTS

| Exam Inits* | Cite No ¹ | Offc ³ | Document Number ⁴ | Kind Code ⁵ | Name of Patentee or Applicant | Publication Date MM-DD-YYYY | Relevant Portion | T ⁶ |
|----------------|-------------------------|-------------------|------------------------------|---------------------------|--|--------------------------------|---------------------|----------------|
| | | WO | 0/01978 | A1 | WELFIDE CORP | 01-11-2001 | | * |
| | | EP | 1 201 236 | A1 | MITSUBISHI PHARMA CORP | 05-02-2002 | | |
| | | WO | 01/08685 | A1 | VERTEX PHARMACEUTICALS INC | 02-08-2001 | | |
| | | WO | 01/49663 | A2 | REGENTS OF THE UNIVERSITY OF CALIFORNIA | 07-12-2001 | | |
| | | WO | 01/49685 | A2 | TEXAS BIOTECH CORP | 07-12-2001 | | |
| | | WO | 02/067915 | A1 | NOVARTIS AG | 09-06-2002 | | |
| | | WO | 02/094342 | A2 | VAPOTRONICS INC | 11-28-2002 | | |
| | | WO | 03/009836 | A2 | NOVARTIS AG | 02-06-2003 | | |
| | | WO | 03/013509 | A1 | MELACURE THERAPEUTICS AB | 02-20-2003 | | |

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|----------------|-------------------------|-------------------|------------------------------|---------------------------|--|--------------------------------|---------------------|----------------|
| | | WO | 03/029205 | A1 | KYORIN PHARMACEUT | 04-10-2003 | | * |
| | | WO | 03/035068 | A1 | NOVARTIS PHARMA GMBH | 05-01-2003 | | |
| | | WO | 03/044015 | A2 | INSTITUTES FOR PHARMACEUTICAL DISCOVERY, LLC | 05-30-2003 | | |
| | | WO | 03/097028 | A1 | NOVARTIS PHARMA GMBH | 11-27-2003 | | |
| | | WO | 2004/024673 | A1 | NOVARTIS AG | 03-25-2004 | | |
| | | WO | 2004/028521 | A2 | NOVARTIS AG | 04-08-2004 | | |
| | | WO | 93/09185 | A1 | MOLECULAR PROBES INC | 05-13-1993 | | |
| | | WO | 98/15278 | A1 | SMITHKLINE BEECHAM | 04-16-1998 | | |
| | | WO | 94/08943 | A1 | YOSHITOMI PHARMACEUT IND LTD | 04-28-1994 | | ** |
| | | WO | 98/45249 | A1 | YOSHITOMI PHARMACEUT IND LTD | 10-15-1998 | | *** |
| | | WO | 98/22100 | A2 | COTTENS et al. | 05-28-1998 | | |

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*US 2004/0254222 IS A RELATED FAMILY MEMBER OF 03/029205

**USP 5,604,229 IS A RELATED FAMILY MEMBER OF WO 94/08943

***USP 6,214,873 IS A RELATED FAMILY MEMBER OF WO 98/45249

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OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

| Examiner Initials ¹ | Cite No. ¹ | Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
|-----------------------------------|--------------------------|---|----------------|
| | | <p>CATIVIELA et al., "Stereoselective synthesis of quaternary α-amino acids, Part 1: Acyclic compounds", <u>Tetrahedron: Asymmetry</u>, <u>9</u>, pp. 3517-3599 (1998).</p> <p>GANDER-COQUOZ et al., "Synthesis of Enantiomerically Pure, α-Alkylated Lysine, Ornithine, and Tryptophan Derivatives", <u>Helvetica Chimica Acta</u>, <u>71</u>, pp. 224-236, (1988).</p> <p>SANO et al., "Lewis Acid- and Cationic Lithium-Mediated Diastereoselective Aldol-Type Reaction Based on a Double Chiral Recognition Manner for the Asymmetric Synthesis of α-Substituted Serines", <u>Tetrahedron Letters</u>, <u>36</u>, No. 23, pp. 4101-4104 (1995)</p> <p>NAGAO et al., "Efficient Preparation of New Chiral Synthons Useful for (+)-Carbacynin Synthesis by Utilizing Enzymatic Hydrolysis", <u>Chemistry Letters</u>, pp. 239-242 (1989).</p> <p>TAMAI et al., "Enzymatic Hydrolyses of the δ-Symmetric Dicarboxylic Diesters Bearing a Sulfinyl Group as the Prochiral Center, <u>Chemistry Letters</u>, pp. 2381-2384 (1994).</p> <p>CASARRUBIO et al., "On the Syntheses of Thiophene Analogs of Practolol and 'Reversed' Practolol", <u>J. Heterocyclic Chem.</u>, <u>20</u>, 1557-1560 (1983).</p> <p>CHARETTE et al., "Syntheses of α, α-Disubstituted-α-Amino Acids by Double Nucleophilic Addition to Cyanohydrins", <u>Tetrahedron Letters</u>, <u>39</u>, 5147-5150 (1998).</p> | |
| Examiner Signature | | Date Considered | |

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| | | <p>ADACHI et al., "Design, Synthesis, and Structure-Activity Relationships of 2-Substituted-2-Amino-1,3-Propanediols: Discovery of a Novel Immunosuppressant, FTY720," <u>Bioorganic & Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 853-856, 1995.</p> <p>CHIBA et al., "FTY720: Immunosuppressant," <u>Drugs of the Future</u>, 22(1):18-22 (1997).</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis of optically active lipidic α-amino acids and lipidic 2-amino alcohols," <u>Amino Acids</u>, (1999) 16:273-285.</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis and biological activities of long chain 2-amino alcohols," <u>Letters in Peptide Science</u>, 9:143-152, 2002.</p> <p>DAGAN et al., "Synthetic, non-natural sphingolipid analogs inhibit the biosynthesis of cellular sphingolipids, elevate ceramide and induce apoptotic cell death," <u>Biochimica et Biophysica Acta</u>, 1633(3):161-169 (2003).</p> <p>FUJITA et al., "Simple Compounds, 2-Alkyl-2-Amino-1,3-Propanediols Have Potent Immunosuppressive Activity," <u>Bioorganic & Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 847-852, 1995.</p> <p>FUJITA et al., "2-Substituted 2-Aminoethanol: Minimum Essential Structure for Immunosuppressive Activity of ISP-I (Myriocin)," <u>Bioorganic & Medicinal Chemistry Letters</u>, Vol. 5, No. 16, pp. 1857-1860, 1995.</p> <p>FUJITA et al., "2-Aminoalcohol: Minimum essential structure of immunosuppressive activity of ISP-I (myriocin)," <u>Tennen Yuki Kagobutsu Toronkai Koen Yoshisyu</u>, 38:727-732 (1996).</p> <p>FUJITA et al., "Potent Immunosuppressants, 2-Alkyl-2-aminopropane-1,3-diols," <u>J. Med. Chem.</u>, 1996, 39, 4451-4459.</p> <p>FUJITA et al., "Design of Novel Immunosuppressants Based on Fungal Metabolites," <u>International Symposium on Natural Medicines</u>, PL-1, p. 3-4, 1997, Kyoto, Japan.</p> <p>HINTERDING et al., "Synthesis of Chiral Analogues of FTY720 and its Phosphate," <u>Synthesis</u> 2003, No. 11, 1667-1670, 2003.</p> <p>HINTERDING et al., "First asymmetric synthesis of chiral analogues of the novel immunosuppressant FTY720," <u>Tetrahedron Letters</u>, 43 (2002) 8095-8097.</p> | 0 |
| Examiner Signature | | Date Considered | |

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| | | <p>HIROSE et al., "2-Aminoalcohol Immunosuppressants: Structure-Activity Relationships," <u>Bioorganic & Medicinal Chemistry Letters</u>, Vol. 6, No. 22, pp. 2647-2650, 1996.</p> <p>KLEY et al., "Synthesis and PLA₂-Inhibitory Properties of 2(R)-Acetamido-Alkylphosphomethanols with a Variable Aggregate Anchor," <u>Bioorganic & Medicinal Chemistry Letters</u>, 9 (1999) 261-264.</p> <p>MAIER et al., "Organic Phosphorus Compounds 93. Preparation, Properties and Herbicidal Activity of 2-Substituted 5-Phenoxy- and 5-Pyridyloxy-Phenylaminoalkyl-Phosphonic- and -Phosphinic Acid - as well as - Phosphine Oxide Derivatives," <u>Phosphorus, Sulfur and Silicon</u>, 56 (1-4): 5-15 (1991).</p> <p>U.S. Application No. 11/922,429 deposited December 18, 2007, Confirmation No. 6507.</p> | |
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